PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference KJ57938B			FOR FURTHER A	CTION	See Form PCT/IPEA/416				
International application No.			International filing dat	e (day/month/year)	Priority date (day/month/year)				
PCT/JP2004/011545			11.08.200	4	12.08.2003				
International	International Patent Classification (IPC) or national classification and IPC								
C09J163/10, 4/02, G11B7/24									
Applicant									
NIPPON KAYAKU KABUSHIKI KAISHA									
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
	s REPORT consists o		=	sheets, including	this cover sheet.				
3. Thi	s report is also accom	panied by Al	NNEXES, comprising:						
a.	(sent to the ap	plicant and	to the International Bu	reau) a total of	sheets, as follows:				
1	sheets o	f the descrip	tion, claims and/or dra	wings which have been a	mended and are the basis for this report and/or				
	sheets c		ctifications authorized b	oy this Authority (see Rul	le 70.16 and Section 607 of the Administrative				
		•		•	siders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental				
			D		51.4				
Ь.	(sent to the In	ternational l	Bureau only) a total of ((indicate type and number	r of electronic carrier(s))				
	1-41 414-	·		- :- d: d : db - Cl	_, containing a sequence listing and/or tables mental Box Relating to Sequence Listing (see				
			rative Instructions).	s mancated in the Supplet	mental Box Relating to Sequence Listing (see				
4. Thi	s report contains indic	cations relation	ng to the following iten	ns:					
	Box No. I	Basis of the	report						
	Box No. II	Priority							
	Box No. III	Non-establi:	shment of opinion with	regard to novelty, inventi	ive step and industrial applicability				
	Box No. IV	Lack of unit	ty of invention						
	Box No. V		atement under Article a d explanations supporti	``	lty, inventive step or industrial applicability;				
	Box No. VI	Certain doc	uments cited						
	Box No. VII	Certain defe	ects in the international	application					
	Box No. VIII	Certain obse	ervations on the interna	tional application					
Date of submission of the demand				Date of completion of thi	is report				
Name and mailing address of the IPEA/JP				Authorized officer					
Facsimile No.				Telephone No.					

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Box	No. I	Basis of the report				
1.		regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise ated under this item.				
		This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:	,			
		international search (Rule 12.3 and 23.1(b))				
		publication of the international application (Rule 12.4)				
		international preliminary examination (Rule 55.2 and/or 55.3)				
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):					
	\forall	the international application as originally filed/furnished				
	Ш	the description:				
		pages as originally filed/furnished				
		pages* received by this Authority on				
	_	pages* received by this Authority on				
		the claims:				
		nos as originally filed/furnished				
		nos.* as amended (together with any statement) under Article 19				
		nos.* received by this Authority on				
		nos.* received by this Authority on				
		the drawings:				
		sheets as originally filed/furnished				
		sheets* received by this Authority on				
		sheets* received by this Authority on				
		a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.				
3.	Ш	The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	æ			
		the description, pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
*	If ite	m 4 applies, some or all of those sheets may be marked "superseded."				

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1. In response to the invitation to restrict or pay additional fees the applicant has: restricted the claims. paid additional fees. paid additional fees under protest. neither restricted the claims nor paid additional fees. 2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, rethe applicant to restrict or pay additional fees. 3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:	ot to invite					
paid additional fees. paid additional fees under protest. neither restricted the claims nor paid additional fees. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, rethe applicant to restrict or pay additional fees.	ot to invite					
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the applicant to restrict or pay additional fees.	ot to invite					
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:						
complied with.						
not complied with for the following reasons:						
The subject matter common to claims 1-9 is "an						
adhesive composition containing a bisphenol type epoxy						
(meth)acrylate (A), a di(meth)acrylate compound having						
a cycloether structure (B), and a photopolymerization						
initiator (C)", which is set forth in claim 1.						
However, the search has revealed that the above common						
subject matter is not novel since it is disclosed in						
the prior art documents cited on the attached sheet.						
Thus, this common subject matter is not considered to						
be a special technical feature within the meaning of						
PCT Rule 13.2.						
Since there exists no other common subject matter						
which can constitute a special technical feature,						
claims 1-9 cannot be considered to be a group of						
inventions so linked as to form a single general						
inventive concept.						
4. Consequently, this report has been established in respect of the following parts of the international application:						
all parts.						
the parts relating to claims Nos.						

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Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1.	Statement			
Novelty (N)		Claims	2, 4	_ YES
		Claims	1, 3, 5-9	_ NO
	Inventive step (IS)	Claims		_ YES
		Claims	1-9	NO
	Industrial applicabil	lity (IA) Claims	1-9	_ YES
		Claims		_ NO

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 9-31416 A (Nippon Kayaku Co., Ltd.), 4
 February 1997
 - Document 2: JP 10-7751 A (Nippon Kayaku Co., Ltd.), 13

 January 1998
 - Document 3: JP 2002-114949 A (Nippon Kayaku 16 April 2002

Each of the inventions set forth in claims 1-9 lacks novelty and does not involve an inventive step in the light of documents 1-3 listed above and cited in the international search report.

Documents 1 and 2 listed above disclose an ultraviolet light-curable composition useful in the adhesion of optical discs such as DVDs, said composition comprising a bisphenol type epoxy (meth)acrylate, a di(meth)acrylate compound having a cycloether structure, such as the product "KAYARAD R-604", a photopolymerisation initiator and, where necessary, another polymerisation compound such as an urethane (meth)acrylate compound; and an optical disc obtained by adhering discs formed of a metal reflective recording film containing silver or the like using said adhesive composition.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Consequently, each of the inventions set forth in claims 1, 3 and 5-9 is essentially the same as those set forth in document 1 or 2.

Moreover, a comparison between the invention set forth in claims 1 and 2 and the inventions disclosed in documents 1 and 2 shows that the invention in the aforementioned claims contains a phosphoric acid (meth) acrylate compound, whereas documents 1 and 2 differ in that there is no specific disclosure of the use of phosphoric acid (meth) acrylate compound.

However, document 3 discloses an ultraviolet light-curable composition useful in the adhesion of optical discs wherein a polymeric oligomer such as epoxy(meth) acrylate and a phosphoric acid (meth) acrylate compound are used in conjunction to improve adhesive performance.

Therefore, investigating improvements in adhesive performance in the inventions disclosed in documents 1 and 2 and adding phosphoric acid (meth)acrylate based on observations made in document 3 would not pose any particular difficulty.